Lesson 6.3 Practice: Conditional Probability

School Launch · Statistics · Unit 6: Probability · Worksheet A

Calculator / tables

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Of 68 adults, 52 drink coffee; of 85 teens, 26 drink coffee. A coffee drinker is picked at random. What is the probability it is a teen? EASY

2. Of 37 adults, 14 drink coffee; of 82 teens, 39 drink coffee. A coffee drinker is picked at random. What is the probability it is a teen? EASY

3. Of 58 adults, 43 drink coffee; of 85 teens, 42 drink coffee. A coffee drinker is picked at random. What is the probability it is a teen? EASY

4. Of 40 adults, 8 drink coffee; of 50 teens, 5 drink coffee. A coffee drinker is picked at random. What is the probability it is a teen? MEDIUM

5. Of 61 adults, 34 drink coffee; of 84 teens, 37 drink coffee. A coffee drinker is picked at random. What is the probability it is a teen? MEDIUM

6. Of 56 adults, 49 drink coffee; of 78 teens, 36 drink coffee. A coffee drinker is picked at random. What is the probability it is a teen? MEDIUM

7. Of 31 adults, 5 drink coffee; of 114 teens, 55 drink coffee. A coffee drinker is picked at random. What is the probability it is a teen? MEDIUM

8. Of 20 adults, 15 drink coffee; of 66 teens, 31 drink coffee. A coffee drinker is picked at random. What is the probability it is a teen? HARD

9. Of 88 adults, 29 drink coffee; of 60 teens, 10 drink coffee. A coffee drinker is picked at random. What is the probability it is a teen? HARD

10. Of 54 adults, 37 drink coffee; of 74 teens, 19 drink coffee. A coffee drinker is picked at random. What is the probability it is a teen? HARD